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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/536,512	05/25/2005	Jac-Hyun Kim	17172-006US1 OPP 050737 U	6483
26161 FISH & RICHA	7590 09/05/2007 ARDSON PC	EXAMINER		
P.O. BOX 1022			LEE, SIN J	
MINNEAPOLIS, MN 55440-1022			ART UNIT	PAPER NUMBER
			1752	
			MAIL DATE	DELIVERY MODE
			09/05/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
	10/536,512	KIM ET AL.				
Office Action Summary	Examiner	Art Unit				
	Sin J. Lee	1752				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD F WHICHEVER IS LONGER, FROM THE M - Extensions of time may be available under the provisions after SIX (6) MONTHS from the mailing date of this comm - If NO period for reply is specified above, the maximum sta - Failure to reply within the set or extended period for reply Any reply received by the Office later than three months a earned patent term adjustment. See 37 CFR 1.704(b).	AILING DATE OF THIS COMMUNIC of 37 CFR 1.136(a). In no event, however, may a re nunication. atutory period will apply and will expire SIX (6) MON will, by statute, cause the application to become AB	CATION.  eply be timely filed  THS from the mailing date of this communication.  EANDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) file	ed on <u>25 May 2005</u> .					
2a) This action is <b>FINAL</b> .	This action is <b>FINAL</b> . 2b)⊠ This action is non-final.					
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) ⊠ Claim(s) <u>1-15</u> is/are pending in the a 4a) Of the above claim(s) is/a 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) <u>1-3 and 6-15</u> is/are rejected 7) ⊠ Claim(s) <u>4 and 5</u> is/are objected to. 8) □ Claim(s) are subject to restrict	re withdrawn from consideration.  d.  etion and/or election requirement.					
9) The specification is objected to by the						
10) The drawing(s) filed on 25 May 2005 is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some * c) None of:  1. Certified copies of the priority documents have been received.  2. Certified copies of the priority documents have been received in Application No  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)  1) Notice of References Cited (PTO-892)	4) ☐ Interview S	cummary (PTO-413)				
<ul> <li>2) Notice of Draftsperson's Patent Drawing Review (P</li> <li>3) Information Disclosure Statement(s) (PTO/SB/08)         Paper No(s)/Mail Date <u>5/25/05</u>, <u>11/20/06</u>.     </li> </ul>	PTO-948) Paper No(s	s)/Mail Date  Iformal Patent Application				

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## **DETAILED ACTION**

## Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1-3 and 6-15 are rejected under 35 U.S.C. 102(b) as being anticipated by Baek et al (KR 2001-0018906A and its English abstract).

Baek teaches (see English abstract) anti-reflection composition containing a polymer of formula 1 (which is shown on the abstract) as a hardening agent and a polyvinyl phenol as a light-absorbing agent (this compound also teaches present adhesivity enhancer). Baek also teaches the use of a thermal acid generator (see pg.4, line 6 of Korean document). According to PTO's on-site English translation of the Korean document, in Example 10, Baek applies his anti-reflection composition onto a silicon wafer and heat-treat the wafer at 205oC for 2 minutes. After applying a photoresist onto the anti-reflective coating, the photoresist film is exposed to ArF radiation, baked again at 110oC for 90 seconds and then developed to obtain a pattern. Baek's invention is used in manufacturing semiconductor devices (see under the summary section on pg.1 of Korean document). Thus, Baek teaches present invention of claims 1-3 and 6-15 (present claim 1 does not require that the light absorbing agent and the adhesivity enhancer of Formula 1 have to be two separate components).

## Allowable Subject Matter

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3. Claims 4 and 5 are objected to as being dependent upon a rejected base claim,

but would be allowable if rewritten in independent form including all of the limitations of

the base claim and any intervening claims. Back does not teach present light absorbing

agent of Chemical Formula 3 or present thermal acid generator of Chemical Formula 4.

4. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Sin J. Lee whose telephone number is 571-272-1333.

The examiner can normally be reached on Monday-Friday from 9:00 am EST to 5:30

pm EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Cynthia Kelly, can be reached on 571-272-1526. The fax phone number for

the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

S- J. L.

S. Lee

September 4, 2007

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Sin J. Len

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